

Title (en)  
SEAT BELT TENSION SENSOR

Title (de)  
SPANNUNGSSENSOR FÜR EINEN SICHERHEITSGURT

Title (fr)  
DETECTEUR DE TENSION D'UNE CEINTURE DE SECURITE

Publication  
**EP 1517817 A1 20050330 (EN)**

Application  
**EP 03739229 A 20030619**

Priority  
• US 0319472 W 20030619  
• US 18524202 A 20020628

Abstract (en)  
[origin: US2003024327A1] A seat belt tension sensor for measuring the magnitude of tension in a seat belt. The seat belt tension sensor has a housing with a cavity. An anchor plate has a portion located in the cavity. The housing moves relative to the anchor plate between a first position and a second position. A sensor is mounted to the housing. The housing presses on the sensor as the housing moves from the first to the second position. The sensor generates an electrical signal in response to the housing moving between the first and second positions. The electrical signal changes as a function of tension on the seat belt. The sensor is a strain gage. The housing engages the anchor plate in the second position to protect the sensor from damage in a vehicle crash situation.

IPC 1-7  
**B60R 22/18**

IPC 8 full level  
**B60R 22/48** (2006.01); **B60R 21/01** (2006.01); **B60R 22/18** (2006.01); **B60R 22/22** (2006.01); **G01L 5/10** (2006.01); **B60R 21/015** (2006.01)

CPC (source: EP KR US)  
**B60R 21/01516** (2014.10 - EP US); **B60R 21/01556** (2014.10 - EP US); **B60R 22/18** (2013.01 - EP KR US); **G01L 5/101** (2013.01 - EP US); **G01L 5/103** (2013.01 - EP US); **G01L 5/108** (2013.01 - EP US); **B60R 21/0155** (2014.10 - EP US); **B60R 2021/01272** (2013.01 - EP US)

Citation (search report)  
See references of WO 2004002784A1

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